

This listing of claims will replace all prior versions, and listing of claims in the application:

Listing of claims:

Claim 1 (currently amended) A miscible primary composition comprising at least the essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable and/or plant material, excluding insoluble fibers, in a carrier selected from the group consisting of milk or and milk protein-containing carrier.

Claim 2 (currently amended) The primary composition according to claim 1, wherein the ~~fruit, vegetable and/or plant material~~ is in ~~the a~~ form selected from the group consisting of vegetables, leaves, flowers, fruits, seeds and other parts of the plant, ~~or a and mixtures mixture~~ thereof.

Claim 3 (currently amended) The primary composition according to claim 1 ~~or 2~~, wherein the ~~fruit, vegetable or plant material~~ is selected from the group consisting of a berry such as wolfberry, blueberry, cranberry, white currant, red currant, blackcurrant, mulberry, blackberry, gooseberry, raspberry, sea buckthorn, strawberry, arbutus berry, grapes, or any other flavonoid, polyphenol or carotenoid-rich fruit, vegetables, seeds, flowers ~~or plant materials such as apples, melons, kiwi, cherries, red date, prunes, peaches, persimmons, citrus fruits, such as mandarin, orange, tangerine, grapefruit, and chamomile, chrysanthemum, bitter orange, honeysuckle, jasmine and safflower, and tomato, spinach, celery, carrots, pea, kale, parsley, watercress, cabbage, broccoli, lettuce, brussels sprouts, collard greens, turnip greens, fennel, onions, tea, corn, cocoa, coffee, thyme or and sweet red pepper.~~

Claim 4 (currently amended) The primary composition according to claim 1, wherein the essential lipophilic and hydrophilic bioactive components are selected from the group consisting of lipids, alkaloids, proteins, carbohydrates, carotenoids, polyphenolic compounds such as flavonoids, vitamins or and minerals.

Claim 5 (currently amended) The primary composition according to claim 4, comprising in which the flavonoids are selected from the group consisting of flavones such as apigenin, luteolin or diosmetin, flavonols such as quercetin, myricetin, kaempferol, flavanones such as naringenin, and hesperidin, catechins such as epicatechin and gallo catechin, anthocyanidins, such as pelargonidin, malvidin, cyanidin or and isoflavones such as genistein, daidzein.

Claim 6 (currently amended) The primary composition according to claim 4, in which wherein the carotenoids are selected from the group consisting of carotenes and xanthophylls such as lycopene, carotene, phytofluene, phytoene, canthaxanthin, astaxanthin, beta-cryptoxanthin, capsanthin, lutein, zeaxanthin, or those in the form of fatty acid esters.

Claim 7 (currently amended) The primary composition according to claim 1, wherein the milk is from animal ~~or~~ plant origin.

Claim 8 (currently amended) The primary composition according to ~~any of claims claim 1 to 7~~, which is in the ~~a~~ form selected from the group consisting of a powder, gel ~~or~~ and liquid.

Claim 9 (currently amended) A process for the preparation of a composition ~~according to claim 1~~, comprising the steps of:

i) mixing and milling ~~the a~~ material selected from the group consisting of a fruit, vegetable and/or plant material in milk or milk protein-containing liquid medium, and

ii) separating insoluble fibers to obtain an aqueous suspension comprising at least the essential lipophilic and hydrophilic bioactive components of the material selected from the group consisting of whole fruit, vegetable and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier.

iii) ~~optionally pasteurising the resulting suspension~~

iv) ~~optionally add synthetic or natural bioactive components during the processing~~

v) ~~and further optionally drying the suspension to obtain a powder.~~

Claim 10 (currently amended) A process for increasing miscibility or dispersibility in an aqueous system, stability, and bio-availability of bioactive compounds of a material selected from the group consisting of a fruit, vegetable and/or a plant material comprising the step of using a primary composition comprising at least the essential lipophilic and hydrophilic bioactive components of the material in a milk or milk protein-containing carrier according to one of claims 1 to 8 or process according to claim 9.

Claim 11 (currently amended) A process according to claim 9 ~~or 10~~, in which wherein the natural bioactive components are selected from the group consisting of as-amino acids, fatty acids, vitamins, minerals, carotenoids, and polyphenols, etc.

Claim 12 (currently amended) An oral composition comprising ~~the~~ a primary composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier according to claims 1 to 8, in a form selected from the group consisting of a foodstuff for oral administration, such as in a nutritional composition, a food supplement, a pet food product, a cosmetic preparation or and in a pharmaceutical preparation.

Claim 13 (currently amended) An oral composition according to claim 12, which is a form selected from the group consisting of a nutritional complete formula, a dairy product, a chilled or shelf stable beverage, a mineral or purified water, a liquid drink, a soup, a dietary supplement, a meal replacement, a nutritional bar, a confectionery, a milk or a fermented milk product, a yoghurt, a milk based powder, an enteral nutrition product, an infant formula, an infant nutritional product, a cereal product or a fermented cereal based product, an ice-cream, a chocolate, coffee, a culinary product such as mayonnaise, tomato puree, or salad dressings or and a pet food.

Claim 14 (currently amended) An oral cosmetic or pharmaceutical composition comprising ~~the~~ a primary composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable

and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier according to claims 1 to 8, which is in a tablet form selected from the group consisting of, a capsule, a pill, a solution, a suspension, a syrup, a dried oral supplement, and a wet oral supplement.

Claim 15 (currently amended) A method Use of a primary composition according to claim 1 to 8, for delivering the multi-nutrients of functional ingredients of fruits and plant material with improved bio-availability, miscibility and stability comprising the steps of administering to an individual a composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier.

Claim 16 (currently amended) A method Use of a primary composition according to claim 1 to 8, for the preparation of an oral, cosmetic or pharmaceutical composition intended for improving skin health, in particular for photo protection of the skin or for protecting skin tissue against ageing comprising the step of administering to an individual in need of same a composition comprising at least the essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier.

Claim 17 (currently amended) A method Use of a primary composition according to claim 1 to 8, for the preparation of an oral, topical or pharmaceutical composition intended for eye health comprising the step of administering to an individual in need of same a composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier.

Claim 18 (currently amended) A method Use of a primary composition according to claim 1 to 8, for the preparation of an oral, cosmetic or pharmaceutical composition intended for stimulating the immune system comprising the step of administering to an individual in need

of same a composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier.

Claim 19 (currently amended) ~~A method Use of a primary composition according to claim 1 to 8, for the preparation of an oral, cosmetic or pharmaceutical composition for preventing or treating cardiovascular diseases or disorders or cancers or diabetes comprising the steps of administering to a patient in need of same a composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable and plant material, excluding insoluble fibers, in a milk or milk protein-containing carrier.~~

Claim 20 (new) The primary composition according to claim 1, wherein the material is selected from the group consisting of wolfberry, blueberry, cranberry, white currant, red currant, blackcurrant, mulberry, blackberry, gooseberry, raspberry, sea buckthorn, strawberry, arbutus berry, grapes, flavonoid, polyphenol carotenoid-rich fruit, vegetables, seeds, flowers, apples, melons, kiwi, cherries, red date, prunes, peaches, persimmons, mandarin, orange, tangerine, grapefruit, chamomile, chrysanthemum, bitter orange, honeysuckle, jasmine and safflower, tomato, spinach, celery, carrots, pea, kale, parsley, watercress, cabbage, broccoli, lettuce, brussels sprouts, collard greens, turnip greens, fennel, onions, tea, corn, cocoa, coffee, thyme and sweet red pepper.

Claim 21 (new) The primary composition according to claim 1, wherein the essential lipophilic and hydrophilic bioactive components are selected from the group consisting of apigenin, luteolin, diosmetin, quercetin, myricetin, kaempferol, naringenin, hesperidin, epicatechin, gallicocatechin, pelargonidin, malvidin, cyaniding, genistein, and daidzein.